



Introducing

# Quantum™ 2

COBLATION®

For Intelligent Arthroscopy

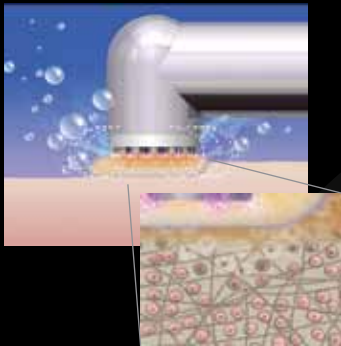
# The Quantum 2 Difference

ArthroCare® invented Coblation® for arthroscopic surgery, and no one understands the science or technology better. Our engineers have taken everything we've learned over the past 15 years and more than 5 million procedures to create the Quantum 2 System, our revolutionary new Coblation platform. Quantum Coblation takes arthroscopic surgery to an entirely new level by giving you the control you need to handle whatever you find, in every joint you treat.

## How Quantum Coblation Works

### Low Temperature Plasma Excision

Quantum Coblation uses a controlled, non-heat driven process in which bipolar radiofrequency (bRF) energy excites the electrolytes in a conductive medium, usually saline solution, to create a precisely focused and charged plasma gas. The energized particles in the plasma have sufficient energy to break the molecular bonds within tissue, causing tissue to dissolve at relatively low temperatures (between 40°C and 70°C). Because radiofrequency current does not pass directly through tissue during Coblation, tissue heating is minimal. The result is volumetric removal of the target tissue with minimal damage to surrounding healthy tissue.



During Coblation, high voltage is applied to the conductive medium (usually saline) located between the electrode and the tissue. The high voltage converts the fluid into an ionized vapor layer (plasma).



The plasma contains excited particles that accelerate toward the tissue and break the tissue's molecular bonds. At relatively low temperatures (between 40°C and 70°C), the tissue disintegrates molecularly (not explosively) into simple molecules, such as small hydrocarbons and gases (oxygen, nitrogen, carbon dioxide, etc.) that are removed from the site with suction, resulting in effective tissue removal.

The Quantum 2 System is the most dynamic controller we've created. When paired with our Multi-Electrode ArthroWand™ devices, the controller produces a large and responsive plasma layer for fast ablation speeds. The Quantum 2 System offers a unique set of features designed to make your procedures go smoothly.

## Efficient Ablation, Intelligent Features



**Multi-Electrode Technology.**™ The ArthroWand portfolio offers a full range of Multi-Electrode wands. These wands form a stable plasma layer, which leads to fast ablation and responsive performance.



**Hand Control Capability.** The Quantum 2 System supports a line of wands with Integrated Finger Switches (IFS).



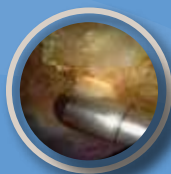
**Temperature Feedback.** The Ambient Wand Collection provides accurate, real-time temperature measurements of the operative environment by using visual and audio indicators on the Quantum 2 Controller.



**Wireless Footswitch.** The Quantum 2 System is compatible with a wireless footswitch accessory which eliminates the tangle of controller wires for unsurpassed convenience and ease of use.



**Adjustable Coagulation.** The new enhanced coagulation mode can improve visualization when tough bleeders are encountered.



**Automatic Scope Saver.** The Quantum 2 System automatically pauses radiofrequency output when wands are in close proximity to or in contact with metal, and resumes radiofrequency output when the wands have returned to a proper distance.

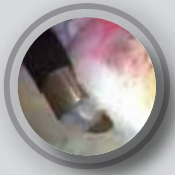


**Integrated TOPAZ™ Timer.** When using TOPAZ Wands, the Quantum 2 Controller defaults to optimal power and timer settings, automatically delivering the precise dose.

# Comprehensive Wand Technologies

The flexible and versatile Quantum 2 System was designed to meet all of your sports medicine needs. Our extensive line of ArthroWand devices offers the widest variety of angles and electrode configurations available. Whether you're debriding articular cartilage in the knee, performing hip arthroscopy, or treating a tendon, Quantum Coblation and our innovative ArthroWand devices are the best choice for the most demanding procedures.

## The Right Tools for Every Indication



### Hip Arthroscopy

SideWinder™ Blade, the first articulating bipolar hip Wand, incorporates a rotating shaft that is deflectable up to 100° enabling unmatched access in the joint space. MultiVac™ 50 XL and TurboVac™ 90 XL offer the length desirable for hip ablation. The hip Wand collection provides rapid removal of synovial tissue and necessary sculpting precision for acetabular labral tissue.



### Chondroplasty

The Paragon T2™ Wand is based on 6 years of published, scientific research on the application of bipolar radiofrequency energy on articular cartilage. Temperature Technology, or T2, provides a real-time visual indicator when the temperature exceeds the recommended 50° C.



### Tendon and Fascia Treatment

TOPAZ Microdebrider™ devices are designed for the minimally invasive treatment of tendons and fascia, helping individuals return to sports, work, and life. The small tip helps to preserve tissue structure.

# The ArthroWand Collection

For 15 years, ArthroCare Sports Medicine has advanced arthroscopic Wand design. Our portfolio of ArthroWand devices includes tools for shoulder, knee, hip, ankle, elbow, wrist, and tendon procedures.



StarVac™ 90



Super TurboVac™ 90



UltraVac™ 90



TurboVac™ 90



Paragon T2



Super MultiVac™ 50



CoVac™ 50



TriStar™ 50



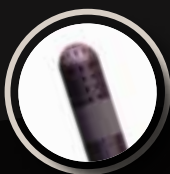
CoVator™ 20



SideWinder



Bevel 45



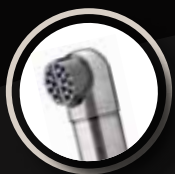
CAPSure™ 30



Microblator™ 30



TOPAZ MicroDebrider



LoPro™ 90



Eliminator™ 90



Dome 60



Saber™ 30





# Count on ArthroCare For Leadership and Innovation

For 15 years, ArthroCare has been the leading innovator in radiofrequency solutions for arthroscopic surgery. No one understands the technology better. No one provides a broader range of solutions. No one has an organization so dedicated to these systems. Let us show you the difference Quantum Coblation can make for your practice.

Visit us online at  
[quantumcoblation.com](http://quantumcoblation.com)



## **International**

ArthroCare Europe AB  
Skeppsbron 2  
111 30 Stockholm  
Sweden  
Tel: +46 8 546 172 00  
Fax: +46 8 546 172 39  
[sportsmedicine@arthrocare.se](mailto:sportsmedicine@arthrocare.se)

## **Asia Pacific**

ArthroCare (Hong Kong) Limited  
Unit 3328, 33rd Floor,  
China Merchants Tower  
Shun Tak Centre  
168 Connaught Road Central  
Hong Kong  
Tel: +852 3793 3430/32  
Fax: +852 3793 3368

## **Australia**

ArthroCare (Australasia) Pty Ltd  
PO Box 2186  
Normanhurst NSW 2076  
Australia  
Tel: +61 2 9479 9200  
Fax: +61 2 9479 9299  
[service@arthrocare.net.au](mailto:service@arthrocare.net.au)

## **Austria**

ArthroCare Austria AG  
Kaufmannstrasse 16  
6020 Innsbruck  
Austria  
Tel: +43 512 36 15 38-00  
Fax: +43 512 36 15 38-60  
[info@arthrocare.at](mailto:info@arthrocare.at)

## **France**

ArthroCare France SARL  
9, rue Noirost  
70000 Vesoul  
France  
Tel: +33 3 84 76 81 38  
Fax: +33 3 84 76 74 63  
[info@arthrocare.fr](mailto:info@arthrocare.fr)

## **Germany**

ArthroCare (Deutschland) AG  
Berghauserstrasse 62  
42859 Remscheid  
Germany  
Tel: +49 2191 93342 0  
Fax: +49 2191 93342 49  
[info@arthrocare.de](mailto:info@arthrocare.de)

## **Scandinavia**

ArthroCare Danmark ApS  
Science Center Skejby  
Brendstrupgårdsvej 21  
DK-8200 Århus N.  
Denmark  
Tel: +45 7023 2850  
Fax: +45 7023 2851  
[info@arthrocare.dk](mailto:info@arthrocare.dk)

## **Singapore**

ArthroCare Singapore Pte Ltd  
120 Lower Delta Road  
Cendex Centre #12-11  
Singapore 169208  
Tel: +65 6276 9022  
Fax: +65 6278 7622  
[customer.support@arthrocare.com](mailto:customer.support@arthrocare.com)

## **Switzerland**

ArthroCare Europe AB,  
Zuchwil Branch (Switzerland)  
Gewerbstrasse 2  
CH-4528 Zuchwil  
Switzerland  
Tel: +41 32 686 88 99  
Fax: +41 32 686 88 90  
[info@arthrocare.ch](mailto:info@arthrocare.ch)

## **UK/Ireland**

ArthroCare UK Ltd  
St James Business Park  
9, Grimbold Crag Court  
Knaresborough  
North Yorkshire HG5 8QB  
United Kingdom  
Tel: +44 1423 888806  
Fax: +44 1423 888816  
[info@arthrocareuk.com](mailto:info@arthrocareuk.com)

## **USA**

ArthroCare Sports Medicine  
680 Vaqueros Avenue  
Sunnyvale, CA 94085-3523  
United States  
Tel: +1 408-736-0224

Not for distribution in the United States.

© 2010 ArthroCare Corporation. All rights reserved. All trademarks, service marks, and logos listed herein are registered and/or unregistered trademarks of ArthroCare Corporation, its affiliates, subsidiaries, or a third party who has licensed its trademarks to ArthroCare. ArthroCare ENT, ArthroCare Sports Medicine, and ArthroCare Spine are affiliates of ArthroCare Medical Corporation.